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Proceedings of Third International Conference on Computing, Communications, and Cyber-Security IC4S 2021 Springer Nature Proceedings of the 1st International Conference on Sustainable Waste Management through Design IC_SWMD 2018 Springer This book describes the latest advances, innovations and applications in the field of waste management and environmental geomechanics as presented by leading researchers, engineers and practitioners at the International Conference on Sustainable Waste Management through Design (IC_SWMD), held in Ludhiana (Punjab), India on November 2-3, 2018. Providing a unique overview of new directions, and opportunities for sustainable and resilient design approaches to protect infrastructure and the environment, it discusses diverse topics related to civil engineering and construction aspects of the resource management cycle, from the minimization of waste, through the eco-friendly re-use and processing of waste materials, the management and disposal of residual wastes, to water treatments and technologies. It also encompasses strategies for reducing construction waste through better design, improved recovery, re-use, more efficient resource management and the performance of materials recovered from wastes. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different waste management specialists. Computer Aided Concrete Mix Design Allied Publishers Construction Materials and Structures Proceedings of the First International Conference on Construction Materials and Structures IOS Press The two volumes of these Proceedings contain about 200 conference papers and 10 keynote papers presented at the First International Conference on Construction Materials and Structures, held in Johannesburg, South Africa from 24 to 26 November 2014. It includes sections on Materials and characterization; Durability of construction materials; Structural implications, performance, service life; Sustainability, waste utilization, the environment; and Building science and construction. 3rd fib Congress Washington USA FIB - Féd. Int. du Béton Recent Advances in Civil Engineering Proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021) Springer Nature The book presents the select proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021). This book discusses the latest developments and contributions towards sustainable construction technologies and advances in civil engineering. Various topics covered in this book are construction technologies, geotechnical engineering, transportation and traffic engineering, structural engineering, environmental engineering, remote sensing and GIS, geo-environmental engineering, water resources engineering and earthquake engineering. This book will be useful for students, researchers and professionals working in the area of civil engineering. Emerging Technologies for Agriculture and Environment Select Proceedings of ITsFEW 2018 Springer This book comprises select proceedings of the International Conference on Emerging Technologies for Farming - Energy & Environment - Water (ITsFEW 2018). The contents are divided into three parts viz., (i) Developments in Farming, (ii) Energy and Environment, and (iii) Water Conservation and Management. The book aims to provide timely solutions, using innovative and emerging technologies, to the global challenges in agriculture, energy, environment, and water management. Some of the topics covered in this book include remote sensing for smart farming, GIS, irrigation engineering, soil science and agronomy, smart grids, renewable energy, energy management systems, energy storage technologies, biological water treatment, industrial waste water treatment, watershed management and sustainability. Given the wide range of topics discussed, the book will be very useful for students, researchers and practitioners interested in agricultural and environmental engineering. Building Construction and Structural Systems Jyothis Publishers Construction Technology Jyothis Publishers Construction technology focuses on principles, use of standards, and the steps involved in the design and construction of buildings and structures. We have included numerous neatly drawn figures for the better understanding of the subject. The book is organized in six modules as per the syllabus of the 4th semester B.Tech. in Civil Engineering course under APJ Abdul Kalam Technological University, Kerala. SSC Junior Engineers Civil Engineering Paper 1 Arihant Publications India limited Staff Selection Commission (SSC) is one of the prestigious organisations of Government of India known widely for recruiting potential candidates for various posts at various subordinate offices. "SSC Junior Engineer CPWD/MES Civil Engineering" for Paper I Computer-based test (CBT) 2019 is a revised edition to provide students an updated version of study material following the latest examination pattern for this examination. It is divided into three parts covering General Intelligence and Reasoning, General Awareness, and Civil along with their chapters equipped with complete theories. Each chapter consists of sufficient number of MCQs for harnessing the conceptual clarity. It has 3 solved papers of 2015, 2017 and 2018 with detailed solutions. It also provides mock test for self-practice. Enclosed with such effective set of study material, it is hoped that it will ensure success in this upcoming examination. TOC Solved Paper 2018, Solved Paper 2017, Solved Paper 2015, PART A - General Intelligence & Reasoning, PART B - General Awareness, PART C - Civil, Mock Test RRB JE (Stage-2) Civil Engineering Infinity Educations This E-Book of 'RRB-JE, Stage-2 Exam' for "Civil Engineering" is designed with Practice Questions from Technical Subjects, such as, Engineering Mechanics, Mechanics of Structures, Building Materials and Construction Technology, Theory of Structures, Design of Concrete Structures, Design of Steel Structures, Construction Management, Estimating & Costing, Hydraulics, Irrigation Engineering, Geotechnical Engineering, Surveying, Transportation and Bridge Engineering, Environment Engineering and CAD; and Question from Non-technical Subjects, like, General Awareness, Physics, Chemistry, Basics of Computers, and Basics of Environment & Pollution Control. Composition of this Book is quite different from the routine books available in market. It consist more calculative, qualitative and error-free content according to new pattern of the Exam. Building Materials and Construction S. Chand Publishing Building Materials and Construction is primarily written for the students of Civil Engineering to make them familiar with building materials and construction practices to build their interest in the field. The book starts with explanation of building material concepts and goes on to explain all the important materials like Lime, Bricks, Cement, Timber, Concrete etc. in separate chapters following the same flow as prescribed in major universities. Special emphasis is given on construction materials such as foundation work, stone and brick masonry, plastering work, door and window design, roof and floors, DPC etc. BULIDING MATERIALS PHI Learning Pvt. Ltd. This practice-oriented book provides a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India. Profusely illustrated with tables and diagrams, the book exposes the reader to the basics of building materials and their specifications. The text also acquaints the reader with the traditional as well as modern materials available in the market. The references to IS codes and standards make this text suitable for further study and field use. This book is primarily designed as an introductory textbook for the students pursuing undergraduate degree (B.E./B.Tech.) and diploma courses in civil engineering and architecture. Because of the lecture-based presentation of the subject, the text would also be of considerable benefit for the young teachers for their classroom lectures. Practising engineers would also get a clear understanding of the fundamentals of the subject. Reinforced Concrete Design: Principles And Practice New Age International This Book Systematically Explains The Basic Principles And Techniques Involved In The Design Of Reinforced Concrete Structures. It Exhaustively Covers The First Course On The Subject At B.E./ B.Tech Level.Important Features: * Exposition Is Based On The Latest Indian Standard Code Is: 456-2000. * Limit State Method Emphasized Throughout The Book. * Working Stress Method Also Explained. * Detailing Aspects Of Reinforcement Highlighted. * Incorporates Earthquake Resistant Design. * Includes A Large Number Of Solved Examples, Practice Problems And Illustrations.The Book Would Serve As A Comprehensive Text For Undergraduate Civil Engineering Students. Practising Engineers Would Also Find It A Valuable Reference Source. DESIGN OF CONCRETE STRUCTURES PHI Learning Pvt. Ltd. This text primarily analyses different methods of design of concrete structures as per IS 456: 2000 (Plain and Reinforced Concrete—Indian Standard Code of Practice, 4th revision, Bureau of Indian Standards). It gives greater emphasis on the limit state method so as to illustrate the acceptable limits for the safety and serviceability requirements of structures. Besides dealing with yield line analysis for slabs, the book explains the working stress method and its use for designing reinforced concrete tension members, theory of redistribution of moments, and earthquake resistant design of structures. This well-structured book develops an effective understanding of the theory through numerous solved problems, presenting step-by-step calculations. The use of SP-16 (Design Aids for Reinforced Concrete to IS: 456-1978) has also been explained in solving the problems. KEY FEATURES : Instructional Objectives at the beginning of the chapter highlight important concepts. Summary at the end of the chapter to help student revise key points. Sixty-nine solved illustrative examples presenting step-by-step calculations. Chapter-end exercises to test student's understanding of the concepts. Forty Tests to enable students to gauge their preparedness for actual exams. This comprehensive text is suitable for undergraduate students of civil engineering and architecture. It can also be useful to professional engineers. Recent Advances in Structural Engineering, Volume 1 Select Proceedings of SEC 2016 Springer This book is a collection of select papers presented at the Tenth Structural Engineering Convention 2016 (SEC-2016). It comprises plenary, invited, and contributory papers covering numerous applications from a wide spectrum of areas related to structural engineering. It presents contributions by academics, researchers, and practicing structural engineers addressing analysis and design of concrete and steel structures, computational structural mechanics, new building materials for sustainable construction, mitigation of structures against natural hazards, structural health monitoring, wind and earthquake engineering, vibration control and smart structures, condition assessment and performance evaluation, repair, rehabilitation and retrofit of structures. Also covering advances in construction techniques/ practices, behavior of structures under blast/impact loading, fatigue and fracture, composite materials and structures, and structures for non-conventional energy (wind and solar), it will serve as a valuable resource for researchers, students and practicing engineers alike. Indian Roads Congress Journal Advances in Structural Engineering Materials, Volume Three Springer The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 - 24 December 2014. The book is divided into three volumes and

encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and composite materials, bridge engineering, and soil-structure interaction. *Advances in Structural Engineering* is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers. *Engineering Geology (For GTU)* Vikas Publishing House This book provides a comprehensive overview of this multi-disciplinary subject, which has interaction with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS), environmental geology, etc. *Engineering Geology* Vikas Publishing House *Engineering Geology* is a multidisciplinary subject which interacts with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS), environmental geology, etc. Engineers require a deeper understanding, interpretation and analyses of earth sciences before suggesting engineering designs and remedial measures to combat natural disasters, such as earthquakes, volcanoes, landslides, debris flows, tsunamis, and floods. This book covers all aspects of *Engineering Geology* and is intended to serve as a reference for practicing civil engineers and mining engineers. *Engineering Geology* has also been designed as a textbook for students pursuing undergraduate and postgraduate courses in advanced/applied geology and earth sciences. A plethora of examples and case studies relevant to the Indian context have been included, for better understanding of the geological challenges faced by engineers. *Reinforced Concrete Structures Vol. II Firewall Media Limit State Design of Reinforced Concrete Firewall Media Sustainable Building - Design Manual* sustainable building design practices The Energy and Resources Institute (TERI) The second volume targets practitioners and focuses on the process of green architecture by combining concepts and technologies with best practices for each integral design component Risk, Reliability and Sustainable Remediation in the Field of Civil and Environmental Engineering Elsevier Risk, Reliability and Sustainable Remediation in the Field of Civil and Environmental Engineering illustrates the concepts of risk, reliability analysis, its estimation, and the decisions leading to sustainable development in the field of civil and environmental engineering. The book provides key ideas on risks in performance failure and structural failures of all processes involved in civil and environmental systems, evaluates reliability, and discusses the implications of measurable indicators of sustainability in important aspects of multitude of civil engineering projects. It will help practitioners become familiar with tolerances in design parameters, uncertainties in the environment, and applications in civil and environmental systems. Furthermore, the book emphasizes the importance of risks involved in design and planning stages and covers reliability techniques to discover and remove the potential failures to achieve a sustainable development. Contains relevant theory and practice related to risk, reliability and sustainability in the field of civil and environment engineering Gives firsthand experience of new tools to integrate existing artificial intelligence models with large information obtained from different sources Provides engineering solutions that have a positive impact on sustainability 4th fib Congress in Mumbai India FIB - Féd. Int. du Béton Road and Airfield Pavement Technology Proceedings of 12th International Conference on Road and Airfield Pavement Technology, 2021 Springer Nature This volume gathers the latest advances, innovations, and applications in the field of pavement technology, presented at the 12th International Conference in Road and Airfield Pavement Technology (ICPT), hosted by the University of Moratuwa, Sri Lanka, and held on July 14-16, 2021. It covers topics such as pavement design, evaluation and construction, pavement materials characterization, sustainability in pavement engineering, pavement maintenance and rehabilitation techniques, pavement management systems and financing, transportation safety, law and enforcement related to pavement engineering, pavement drainage and erosion control, GIS applications, quarry material assessment, pavement instrumentation, IT and AI applications in pavement. Featuring peer-reviewed contributions by leading international researchers and engineers, the book is a timely and highly relevant resource for materials scientists and engineers interested in pavement engineering. National Building Code of India, 1983 Laboratory Manual on Testing of Engineering Materials New Age International Primarily Written For The Students Of Civil Engineering And Practising Engineers Involved In The Testing Of Building Materials, The Manual Describes In Straight-Forward And Systematic Manner The Testing Of Engineering Materials. Each Test Given In The Manual Outlines The Objectives, Theory, Apparatus Requirements, Procedures, Precautions, Questions For Discussion And Observations And Calculations. For All The Tests Specified, The Procedure Is Based On The Relevant Indian Standard Code Of Practice Which Is The Usual Accepted Method Of Performing The Tests. The Manual Can Be Used By Students And Field Engineers For Keeping The Record Of Tests Performed In The Laboratory. Since Each Test Requires A Different Reference Of The Indian Standard Codes, It May Not Be Practically Feasible In The Field Conditions And Therefore This Manual Comes Quite Handy For These Situations. It Will Be Invaluable And Indispensable Manual For Imparting Effective Instructions To Diploma And Under Graduate Level Students As Also To Field Engineers. The Indian Concrete Journal Civil Engineering (O.T.) Firewall Media Prestressed Concrete CRC Press Simple design, low life cycle costs, and fast, easy construction are just a few of the reasons that make prestressed concrete attractive for use in bridges, water and wastewater storage tanks, ocean dock construction, flooring, and more. *Prestressed Concrete* covers the fundamentals of prestressing, systems of prestressing, losses, the ultimate strength of sections in flexure, shear and torsion, anchorage zone stresses, limit state concepts and holistic design of prestressed concrete elements. The book also provides information on design of determinate structures and indeterminate structures (beams and frames) inclusive of cable profiling. It discusses special structures like pipes, water tanks, etc. and the behavior of composite structures such as precast prestressed concrete beams cast- in-situ R.C. slab, along with its design provisions. *Prestressed Concrete* is a valuable guide for practicing engineers, students, and researchers. Proceedings of the Fifth International Conference of Transportation Research Group of India 5th CTRG Volume 1 Springer Nature The Indian Trade Journal Applied Geology (For Anna) Vikas Publishing House Applied Geology is a multidisciplinary subject that interacts with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS), environmental geology, etc. This book, entitled *Applied Geology*, is the only one of its kind in the Indian market that caters to the needs of all these subjects. This book covers all aspects of Applied Geology and is intended to serve BTech students. A plethora of examples and case studies relevant to the Indian context have been included for better understanding of the geological challenges faced by engineers. Multi-disciplinary Sustainable Engineering: Current and Future Trends Proceedings of the 5th Nirma University International Conference on Engineering, Ahmedabad, India, November 26-28, 2015 CRC Press The Nirma University International Conference on Engineering NUICONE is a flagship event of the Institute of Technology, Nirma University, Ahmedabad. NUICONE-2015 is focussed on events/themes in the current trends in Engineering and its research issues. Practicing engineers, technologists and technopreneurs from the industry Standards India New Civil Engineer Journal of the Institution of Engineers (India). Civil Engineering Division Fundamentals of Reinforced Concrete S. Chand Publishing This book on Reinforced Concrete has been comprehensively revised with a view to make it more suitable for the updated syllabus of various Technical Institutes and Engineering Colleges of different Universities. HIGH PERFORMANCE CONCRETE PROPERTIES & APPLICATIONS Blue Rose Publishers High performance concrete is used in almost all big construction projects, including towering office and residential buildings, bridges, tunnels, and motorways. This book assists professionals in understanding the performance characteristics of various construction materials when deciding which type of concrete to utilize for certain projects. A comprehensive analysis of the rapidly evolving issue of high performance concrete (HPC) by one of the field's major researchers. It covers every area of HPC, from materials and characteristics to building and testing. The book will be useful for all concrete technologists & construction engineers who want to take use of the material's excellent characteristics.